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# NUMBERS & ODDITIES #
//////////////////////////////////// \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
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-
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-::: N&O #55 November 2002 :::-

★ VOICE STATIONS ★

A slow month with hardly any report.

::: E03

A1 compiled as usual the idents that were used in November.

1st half of the month:

UTC	Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC
1200	43922	43922	43922	43922	43922	43922	43922	1200
1300	92362	92362	92362	92362	92362	92362	92362	1300
1400	28264	33661	52192	58661	43922	25330	90262	1400
1500	90262	28264	33661	52192	58661	43922	93522	1500
1600	93522	90262	28264	33661	52192	58661	25330	1600
1700	25330	93522	90262	28264	33661	52192	43922	1700
1800	43922	25330	93522	90262	28264	33661	58661	1800
1900	58661	92362	25330	92362	90262	28264	92362	1900
2000	92362	43922	92362	93522	92362	90262	52192	2000
2100	52192	58661	43922	25330	93522	92362	33661	2100
2200	33661	52192	58661	43922	25330	93522	28264	2200

2nd half of the month:

UTC	Mon	Tue	Wed	Thu	Fri	Sat	Sun	UTC
1200	85497	85497	85497	85497	85497	85497	85497	1200
1300	01341	01341	01341	01341	01341	01341	01341	1300
1400	37876	37543	29146	48209	85497	71644	11125	1400
1500	11125	37876	37543	29146	48209	85497	75111	1500
1600	75111	11125	37876	37543	29146	48209	71644	1600
1700	71644	75111	11125	37876	37543	29146	85497	1700
1800	85497	71644	75111	11125	37876	37543	48209	1800
1900	48209	01341	71644	01341	11125	37876	01341	1900

2000	01341	85497	01341	75111	01341	11125	29146	2000
2100	29146	48209	85497	71644	75111	01341	37543	2100
2200	37543	29146	48209	85497	71644	75111	37876	2200

<<<<<>>>>>

::: E10

Only minutes before I wanted to upload N&O #55, I received a note from Magnolis in which he tells that he heard ABC and strings. Nice :-)

6930 kHz, 6 Nov., 1300-1646 UTC, "VLB 31" followed by "VLB 95Z16Z1900".
4166 kHz, 18 Nov., 2111-2140 UTC, "CIO 4C9QP0". Also on 6930 and 3270 kHz.
6428 kHz, 7 Nov. "ABC" at 1231-1237 and 1259-1308 UTC.

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::: E11

Gert reports that E11, Oblique, has changed its Tuesday and Thursday frequencies for its 1030 and 1230 UTC transmissions.

The 1230 UTC transmission switched to 7439 kHz. No news about the 1030 slot yet.

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::: E15

Long time no hear.... E15 was logged in Greece by Magnolis on 5530 kHz on 7 Nov. at 2009 UTC with 5LGs. Ended 2011 UTC.

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::: G04

G04 is currently on 4270 kHz at 2100 UTC and on 4370 kHz at 2130 UTC.

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::: S13 / S14

Russian military 10-counts were copied on 4042 kHz at 2119 UTC and 4130 kHz at 0500 UTC. Both live and taped.

<<<<<>>>>>

::: UNID STATION

A log from Finland mentions an unid Russian station on 5200 kHz. It was heard at 1402 UTC on 23 November, transmitting 5LGs read by a lady.

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* MORSE STATIONS *

::: M08

The following comes from Mark Slaten. He copied a rather unusual M08a transmission on 31 October. Here is Mark's report:

"A most unusual thing happened a few minutes ago with the 0900 kHz M8a sked on 10126 kHz. First, two different messages were sent to address 00200. Second, only the numbers 0 and 2 were used in the message text and the callup. Also, 20 was sent prior to the standard 3 address callup. Here is most of first message and beginning and end of second message. I missed first 5 groups until I realized he was sending all 0's and 2's.

20 00200 00200 02020 (for 3 minutes)

00200 00200 00200 00200 00200

----- 02000 22002 00002 00000 20222
02200 02020 22022 02020 20000 00022 02220 00202 20222 02202
02020 02022 22200 00022 00002 00220 00000 22022 02000 02022
00022 22200 02220 02020 20222 02022 02202 22202 00020 00222
02002 22220 02222 02022 20220 02002 20020 02200 00202 22222

00200 02200 22220 00220 00002 02220 02000 20222 20222 00020
02020 22222 02022 00022 20222 02022 00222 20200 00200 02220
20000 00002 00222 22020 22202 22022 20000 00202 20022 00000
20202 22020 00200 20220 00222 00022 00222 20200 22022 22000
02202 22000 20022 22222 22022 22220 02202 22220 02002 20202

22202 00020 02220 00222 02000 20000 20202 02000 02220 02020
22002 00000 00000 22202 02222 20002 22220 20022 20022 22020
00000 02200 20200 00020 20000 02020 22202 22020 22200 02020
22002 00000 00022 22222 22220 02000 22020 02222 20000 02222
00020 00022 00202 02200 02020 20202 22022 20220 00222 22020

00200 00200 00200 00200 00200

00000 20022 20000 00022 22202 22202 02200 22222 02202 22200
(message continues another 130 groups of 0's and 2's)
02220 02200 00000 02220 00220 22220 00220 20020 00000 20022

Note how the first two groups are repeated in the last two

groups of the message. This remains consistent with M8a/V2a message encryption procedure.

02020 02020 02020 02020 02020 (went into third message to different address. At this point I ceased copy.)

I hope you found this of interest. First time I have ever seen the Cubans do something like this. Maybe it was just practice or dummy traffic because it was the end of the month. As usual, the transmitter was pretty garbled."

Interesting catch, Mark!!!

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::: M15 - EC3Y / DEA47

"Hi Ary, I heard about numbers station "EC3Y". Can you tell me who was behind it?", asks Charles.

"EC3Y" was a German station. Unlike a number of other German stations in the 1980's, this one used a Spanish callsign instead of an official German callsign. According to the German PTT they used the Spanish callsign because the transmissions were beamed towards Spain. What utter nonsense! The callsign changed to "DEA47" later on. This callsign belonged to the BFST (Bundesstelle fuer Fernmeldestatistik) in Husum, which is believed to be an alias of the BND.

EC3Y/DEA47 was a Morse station and most of the time it transmitted "VVV DE EC3Y" and later "VVV DE DEA47" strings. Only a few 5FG messages were sent each day.

The station was only heard on Mon-Fri during office hours (0900-1700 CET which is 0800-1600 UTC).

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::: M87

M87 monitor Igor sends us a couple if his M87 logs.

Frequency: 10515 kHz, 2300 UTC, 06 November

... 651 651 651 651 651 651 651 651 000
651 651 651 651 651 651 651 000
651 651 651 651 651 651 651 651 000
651 651 651 651 651 651 651 000
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651 651 651 651 651 651 000
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651 651 651 651 651 651 651 651 000
651 651 651 651 651 651 651 651 000
651 651 651 651 651 651 000
651 651 651 651 651 651 651 000 000

Frequency: 12150 kHz, 1300 kHz, 01 November

698 698 698 698 698 698 698 698 698 698 698 698 698 698 698 698 000 000
698 698 698 698 698 698 698 698 698 698 698 698 698 698 698 698 000 000
698 698 698 698 698 698 698 698 698 698 698 698 698 698 698 698 698 000 000
698 698 698 698 698 698 698 698 698 698 698 698 698 698 698 698 698 698 698
698 698 000 000
698 698 698 698 698 698 698 698 698 698 698 000 000

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::: MX

Several monitors helped me to measure the exact frequencies of the cluster beacons in Europe and Asia. Because not all the stations were active we have to make an assumption re the 1.1 slot.

The four European cluster beacons, D, P, S and C occupy the first four slots and the four Asian beacons the next four slots. The 1.1 slot is empty but an Asian "A" cluster beacon has been reported frequently in the past. The last report of "A" dates back to March this year. One source says that "A" is located at Sovetskaya Gavan. This is a good possibility as like Petropavlovsk Kamchatskiy, Magadan and Vladivostok, Sovetskaya Gavan is a major base of Russia's Pacific Fleet and home of various recon regiments of Russia's naval air force. DFs are however necessary to pinpoint the station. I therefore ask for the help of people in the Far East and Australia. Please, try to figure out where "A" is located and DF it the next time that the station is on the air. Thanks in advance!

Cluster beacon slots:

- .7 "D", Odessa
- .8 "P", Kaliningrad
- .9 "S", Arkhangelsk
- .0 "C", Moscow
- .1 ? possibly "A"
- .2 "F", Vladivostok
- .3 "K", Petropavlovsk Kamchatskiy
- .4 "M", Magadan

Example of a cluster:

"D" - 8494.7
"P" - 8494.8
"S" - 8494.9
"C" - 8495.0
? - 8495.1
"F" - 8495.2
"K" - 8495.3
"M" - 8495.4

Current clusters: 4558, 5154, 7039, 8495, 10872, 13528, 16332 and 20048 kHz.

The activity of beacons C, D, and P coincided with the NATO/PfP exercise "Open Spirit" but was possibly not related as the beacons were still on the air long after the exercise ended.

Channel markers:

"L" St. Petersburg, 3335.7, 3339.6 kHz
"P" Kaliningrad, 3772, 5862, 8952 kHz
"R" Izhevsk, 3195, 5465 kHz
"V" Khiva, 3658, 6335.5 kHz

Marker "E", last month reported on 5455 and 5488 kHz, is not the letter "E" but just a pip. See further under "PIPS".

Three beacons/markers were reported on new frequencies, but I am not sure if they are genuine Russian military beacons. It is quite possible that these are pirate beacons (see also this month's "Utility Round-up" in the WUN newsletter). Frequencies: 7000 and 10308.5 kHz ("F"), and 23921.5 kHz ("C").

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::: RUSSIAN / CIS MILITARY STATIONS

Frequencies: 3826 kHz

Callsigns: PNZF, KY8H, K21R, PKS8, WR3N.

Typical preamble "649 66 23 0100 649 = 893 ="

[logged by John Cramer]

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::: CHINESE MILITARY STATIONS

Our friend "L9CC" seems to be silent at the moment. The last logs are from September. Most stations of the Chinese military family were quiet this month. The only one that was reported in November is "GNM9". The signal was strong as usual in Japan and barely audible to fair in Europe. "GNM9" used 5628.5, 5633.5 and 6981.5 kHz.

Members of the "L9CC" family include: FC1T, GNM9, L4FC, L9CC, NH8T, 2SLC, 4XML, 6PXJ, 8NMQ. They transmit the following round slips:

"V CP17 CP17 CP17 DE L9CC L9CC"
"V LA5S LA5S LA5S DE NH8T NH8T"
"V MW3D MW3D MW3D DE 2SLC 2SCL"
"V BFR7 BFR7 BFR7 DE 4XML 4XML"
"V GM3Z GM3Z GM3Z DE PNM9 PNM9"
"V IBEH IBEH IBEH DE L4FC L4FC"
"V YELM YELM YELM DE FC1T FC1T"
"V ABYZ ABYZ ABYZ DE 6PXJ 6PXJ"
"V J9RZ J9RZ J9RZ DE 8NMQ 8NMQ"

According to several DF's from countries in the area, NH8T is located on 124.27E / 41.25N

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::: CZECH / SLOVAK MILITARY STATIONS

The Czech or Slovak military station on 2362 kHz disappeared early this year but is back now. Sylvain copied a similar station on 2754 kHz. I hope that we can hear more activity during the winter months.

The station typically transmits the callsign of the addressee as long as it has no messages to send. They tend keep the frequency occupied for 24 hours.

At the time of writing 2362 is sending "JQLU" for at least half an hour.

Frequencies to monitor: 2362, 3232, 3803, 3849 kHz

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::: PIPS

The various PIP stations still need further examination, but progress is being made. Takashi, Trond, and... well, you know who you are, thanks for your co-operation. Logs and info about these stations are MOST welcome.

"PIPS", the sequel....

1) Pip + ..-- marker.

Frequencies: 5445//14425//14378 kHz.

Occasional hand keyed morse messages.

Comments:

Some suspect Chinese origin, due to the usage of 4FGs and the hand-bug key vs the usual Russian 5FGs and keyboard morse. Well, it is of course possible but there is one thing that makes me think that it is Russian: the marker is the Cyrillic character ..--

14425 was noted sending traffic with fast hand/paddle key non-Roman morse to an unknown station (was obviously a QSO rather than a broadcast); traffic consisted of some kind of coded alfa numeric groups but not of regular length, no obvious plaintext noted (texts like this: "A6UNHH UATA CKCKŌî). Usually traffic begins with several "BT" characters repeated.

2) Pip + data bursts.

Frequencies: 3771.5//10096.5//14316.5 kHz.

Occasional hand keyed morse messages. Continuous CW pulses frequently interrupted by periods UNID mode FSK bursts. The data mode is the same as that used by Chinese Air Defense (4FSK, 100 baud, 400 Hz shift, ACF=0).

3) Pip every 2 seconds + "VVV" every 30 seconds.

Frequency: 14050 kHz.

4) 2 Pips per second.

Frequency: 14325 kHz, ex 14300 kHz.

5) 2-second pip + "XXXXX" marker and occasional rapid morse.

Frequencies: 5455, 5488, 14425, unknown 4th frequency

Mode is CW, with a ~50 ms pip exactly every 2 seconds. At minute :19 and :49 5488 kHz sends CW "XXXXX" then goes back to pips. No such "ID" was noted on 5455 kHz.

The nighttime frequencies are 5455 and 5488. At 2300 UTC both QSY, 5455 to 14425, 5488 to an unknown frequency. It's possible that these stations are two ends of the same circuit, but this couldn't be verified yet.

Comments:

PIP #1 also uses 14425 kHz. It is not clear if they are related.

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★ VARIOUS MODES ★

::: S28 - BUZZER

Jan Michalski checks in with some "Buzzer" notes. He says:

"24 and 25 October were the darkest days in the history of UVB-76. The station was silent for 3 hours and 42 minutes:
October 24, 07:32-07:57 UTC No oscillator, only carrier
October 25, 01:17-03:34 UTC No oscillator, only carrier
October 25, 06:00-06:50 UTC No carrier
During the pauses, a Morse keying was clearly audible in the background of unmodulated carrier of UVB-76, meaning that a CW transmitter is located at the same site."

Jan updated his website about this station and added a Russian page as well. Here are the URLs:

<http://www.geocities.com/uvb76>
<http://www.geocities.com/uvb76/uvb76.html>

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::: S30 - PIP

"The Pip is on its winter schedule now", writes Rimantas, and he also mentions the control message that he copied on 16 November at 1355 UTC on 5448 kHz.

Day time: 5448 kHz 0530-1400 UTC
Night time: 3756 kHz 1400-0530 UTC

The translated control message of 16 November:

"For 928, 650, 591, 724, 011, 064, 969, 920, 007, 112. How can you read me? Over"

007??? Is James Bond working for Russia these days? :-)

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::: XM - WHALES

The Whales a.k.a. Backward Music station is still on 5435 kHz and Gert also found one 9004.5 kHz (1100 UTC, 17 Nov.)

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::: XTB

XTB is a new ENIGMA designator. It's characteristics are as follows:

Frequency 11116 kHz. Daily. It is best heard in Europe in the early morning. I transmits 1 tone, 2 buzzes.

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::: X06 / M42

Jochen copied the Mazielka on 16 November at 1600 UTC. After the selcal, the CW callup to "URO" started on the same frequency, 13987 kHz, followed by a M42 RTTY transmission. The id for this link is 60047.

An oldie was heard by Richard Deasington: "RAU" on 13888 kHz at 0700 UTC on 6 November "RAU" is one of the survivors from the early 1990's and has link id 00070. Welcome back, Richard!

Other logs come from Bob, Leif, Peter and Richard.

Frequency	UTC	date	link	to	mode
-----	-----	-----	-----	---	-----
11472	15.43	01-11			PSK + MFSK
11459.5	16.37	01-11	60047	URO	RTTY
13888	07.00	06-11	00070	RAU	RTTY
13987	16.00	16-11	60047	URO	Mazielka call, CW callup, RTTY
14638	09.05	02-11	30011		MFSK
16332	15.35	25-11			Mazielka call + MFSK
18523	05.35	27-11	30044		RTTY
18523	06.21	20-11	30044		RTTY
18523	05.35	27-11	30044		RTTY
20615	09.40	21-11			RTTY

<<<<<>>>>>

::: XP

November schedules:

13577 kHz, 0700 UTC	14477 kHz, 0720 UTC	15677 kHz, 0740 UTC
6787 kHz, 2100 UTC	5781 kHz, 2120 UTC	4618 kHz, 2140 UTC
7727 kHz, 2110 UTC	6781 kHz, 2130 UTC	5162 kHz, 2150 UTC

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::: XSL

Takashi reports that XSL, the slot machine, can be heard on 4154, 4233,

4293, 6250, 6417, 6445, 8313, 8588 and 8703.5 kHz.

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::: JAMMERS

Beside the usual bunch of -mainly- Iraqi and Iranian jammers between 7000 and 7080 kHz, the following other frequencies were reportedly being jammed: 1053 (N.Korea), 1557 (Iraq), 6030 (Cuba), 6600 (S.Korea), 7315 (Cuba), 7365 (Cuba), 8696, 8700 (Cuba), 9565 (Cuba), 9955 (Cuba), 11550 (China) kHz.

The BBC is also a victim:

"The BBC confirmed jamming on three separate shortwave frequencies when it followed up unconfirmed reports with field tests in Uzbekistan over the last few weeks. The jamming, which began on 1 September, consists of a strong radio signal from a Chinese speech station on the three frequencies used by the BBC during broadcasts."
[source: BBC press release, via CRW]

The following is a quote from Clandestine Radio Watch 120, written by D. Mezin:

"Recently, many DX listeners and stations' officials (such as people from VOA and BBC) discussed the continued jamming of Uzbek language broadcasting by Chinese authorities. They presume that Uzbek language can be easily understood by Uighur people, which is a national minority in Western China. Then, Uzbek broadcasts from Western radios may disturb stability in that region of China, they say.
Well, but I still wonder: Kazakh and Kyrghyz languages are understandable for Uighurs as well. To my ear, Kazakh is even more close to Uighur than Uzbek is. But those languages are not subject to jamming at all.

I do not exclude the possibility that initiative of jamming comes from Uzbekistan government. Possibly they have no technical possibility to do this, so maybe some agreement with Chinese authorities has been established. Regarding possible FM relaying in Tashkent, UZB capital (is it really carried out?), they may keep a good play for Western diplomatic missions, to show that "we do not violate the information freedom". Remember, Eastern rulers are very sly..."

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::: CHIRP SOUNDERS

A posting from Peter Martinez to the "ukfivemegs" group attracted my attention. Peter writes that he has found a new chirp sounder on 5400 kHz.

He has located the sounder with the help of Chirpview observations from PA1ARE and G4JNT at 49N 2W in Northwest France. It's been on since 20 November but there's no way of knowing if it's a new permanent sounder or a temporary one. It sweeps through 5.4 MHz at 1 min 44 sec past the hour and every 5 minutes thereafter.

Other chirp sounders can be heard on 5337.37 kHz. The following logs are from Richard with comments from Peter.

Chirp Beacons G3CWI Statistics:

Start of observation: 22/11/2002 08:21:43 UTC (computer time)
End of observation : 24/11/2002 15:51:05 UTC (computer time)
End of observation : 15:51:16 UTC (GPS clock)
Observed frequency : 5337.37 kHz

PS = Period (secs)
Time = Seconds at 0 MHz
FHT = First Heard Time
LHT = Last Heard Time
NBR = Number heard

P/S	Time	FHT	LHT	NBR	Location
---	-----	-----	-----	---	-----
300	50.00196	10:36	15:46	244	Normandy (the new one)
300	61.81657	07:41	15:41	40	Milltown Scotland
300	61.82886	08:26	18:26	97	Milltown Scotland (drifted)
900	75.35020	13:47	15:32	6	Italy
900	75.36111	15:02	07:17	4	Italy (drifted)
300	78.00168	08:27	15:47	338	Inskip
900	85.87572	08:32	15:47	109	Holland
720	162.59240	02:51	10:03	19	Norfolk VA backscatter sounder
346	280.37860	13:27	13:38	3	Alice Springs backscatter sounder
314	290.37798	15:05	15:11	2	Alice Springs (with timing jump)
720	505.42598	08:33	08:21	23	Puerto Rico backscatter sounder
720	535.02437	05:33	05:45	2	Puerto Rico vertical incidence sounder
720	553.21358	08:34	09:58	9	Kingsville Texas Backscatter sounder
900	624.93534	08:26	15:41	64	European sounder not yet located

Note that several of the monitors have been copying the Alice Springs and Canberra sounders on 5 MHz at about 1500z in the last few weeks. The USA sounders are audible all night at the moment (26 Nov). The sounders that

drift in timing are sometimes logged twice with this system if the signal drops out and comes back in again later.

[source: Peter Martinez, via the "ukfivemegs" mailing list]

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::: DOPE

Nope, not that dope :-) DOPE stands for the "Doppler Pulsation Experiment". The experiment is carried out by the University of Leicester.

Tom asked the university for a QSL card and received some interesting info from them together with a QSL letter.

Presently, a Leicester built HF Doppler transmitter and receiver system is situated in the vicinity of the EISCAT radar site near Tromso (69 N, 19 E). It continuously sounds the ionosphere on a near vertical path, with a CW signal at 4450 kHz. The system is controlled, in real time, by a PC running specially written control and logging software. The sounder avails the opportunity to observe perturbations on, and also many wave types through, the local ionosphere. It will be difficult to spot, as it is only on from time to time, and varies in frequency, often somewhere between 4 and 4.5 MHz, pulsing on and off at about 1 min intervals.

DOPE sounders transmit currently on:

- 4160 kHz (Seljelvnes, Norway)
- 5250 kHz (Seljelvnes, Norway)
- 5730 kHz (Skibotn, Norway)
- 5260 kHz (Kilpisjarvi, Finland)

They transmit extreme stable CW carriers. The output is 40 Watts. DOPE's receiver location is at Ramfjordmoen.

"The small frequency changes imposed on the signals during their reflection from the ionosphere at about 300 km altitude are analysed to provide information on low frequency waves in the Earth's magnetosphere", explains Tim Yeoman.

You may try your luck for a QSL at the following address:

University of Leicester,
Radio & Space Plasma Physics Group
(Department of Physics & Astronomy,
University Road, Leicester, LE1 7RH, England
attn Mr Tim Yeoman (e-mail: tim.yeoman@ion.le.ac.uk)

Thanks for the info, Tom.

For those who are interested in sounders I have a PDF document about DOPE. It is a copy of the relevant pages of the Journal of Geographical Research, vol.105, no.A3. Mail me if you want a copy (+/- 2,5MB).

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★ INTELLIGENCE NEWS ★

::: RUSSIA

Andrey Soldatov sent me an article a while ago that fell between two stools. It was about the three large Soviet/Russian Comint/Sigint facilities outside Russia: Lourdes (Cuba), Cam Ran Bay (Vietnam) and Ansan (N.Korea). The latter was new to me and according to Andrey's article, there seems to be a possibility that it will be reactivated now the Russians have left the Lourdes facility. Here is some info about the station:

Operational: 1986-1997
Code name : "Ramona"
Main target: USAF operations from Okinawa AFB
Staff : 80
Umbrella : GURRSS (Main Directorate of Radio-electronic
Intelligence of Communications, 3rd directorate
of FAPSI) or GRU

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::: RUSSIA / SWEDEN

Sweden's telecommunications company Ericsson is working on radar and missile guiding systems for Sweden's JAS-39 Gripen fighter plane.

The company suspended a total of five employees recently. The police arrested three employees on suspicion of industrial espionage for Russia. The other two are possibly involved. Two Russian diplomats have been expelled from Sweden as a result.

Russia said it would expel two Swedish diplomats in what appeared to be retaliation for Sweden's expulsion of the two Russian diplomats, although Russia's version of the story is a bit different. Associated Press reports: "The statement said the decision was based on activities of the two diplomats that had brought "harm to the security interests of the Russian state."

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* LOGS SECTION *

2362		Czech or Slovak mil sending "JQLU" CW 24-11-02 2214 (AB)
2525	M51	Blurred morse. 5LGs CW 20-11-02 2154 (RGA)
2626.0	E10	QSA 1 (FTJ) AM 13-11-02 Wed 0021 (LC2)
3025.0	M08a	ID 40513 56471 98081 CW 02-11-02 Sat 1000 (MS)
3025.0	M08a	ID 49403 77891 29271 CW 23-11-02 Sat 1000 (MS)
3195	MX	Channel marker "R", Izhevsk CW 09-11-02 Sat 2259 (AB)
3244.0	M08a	ID 88391 55831 87151 CW 02-11-02 Sat 1000 (MS)
3244.0	M08a	ID 99611 15911 65861 CW 23-11-02 Sat 1000 (MS)
3246	M13A	525/000 CW 09-11-02 Sat 2200 (HFD)
3246	M13A	525/000 CW 10-11-02 Sun 2200 (HFD)
3270.0	E10	CIO 2 AM 25-11-02 Mon 0021 (LC2)
3335.7	MX	Channel marker "L", St Petersburg CW 09-11-02 Sat 2257 (AB)
3360.0	E10	(SYN 2) AM 13-11-02 Wed 0021 (LC2)
3415	E10	ART AM 10-11-02 Sun 0001 (AB)
3415.0	E10	(ART 2) AM 13-11-02 Wed 0022 (LC2)
3525	M45	525-679/33=73298, //4025 CW 14-11-02 Thu 1802 (HFD)
3658	MX	Channel marker "V", Khiva CW 09-11-02 Sat 2258 (AB)
3756	S30	Pip CW 09-11-02 Sat 2322 (AB)
3828.9	XSW	Squeaky Wheel channel marker CW 09-11-02 Sat 2256 (AB)
3840.0	E10	YHF in tfc USB 03-11-02 Sun 0400 (BS4)
3926.0	M08a	ID 55892 75981 18011 CW 06-11-02 Wed 1000 (MS)
4007.0	M10	555 for 267(30) and 710 (18) CW 14-11-02 Thu 0021
4007.0	M10	qrm3 CW 26-11-02 Tue 0021 (LC2)
4015	E10	VLB2 AM 30-11-02 Sat 2245 (AB)
4015.0	E10	VLB2 USB 10-11-02 Sun 0245 (BS4)
4025	M45	525-679/33=73298, //3525 CW 14-11-02 Thu 1802 (HFD)
4027.0	M08a	ID 88391 55831 87151 (rpt of 1000z on 3244m) CW 02-11-02 Sat 1100 (MS)
4027.0	M08a	ID 99611 15911 65861 (rpt of 1000z on 3244m) CW 23-11-02 Sat 1100 (MS)
4028.0	V02a	Much QRM USB 08-11-02 Fri 0104 (BM)
4035.0	V02a	(in progress - YL/SS) AM 02-11-02 Sat 1000 (MS)
4035.0	V02a	(in progress) AM 23-11-02 Sat 1000 (MS)
4042	S14	Russian military. 10-count for ten minutes LSB 29-11-02 2119 (MG)
4123	M13	284 CW 15-11-02 Fri 2100 (HFD)
4123	M13	284 CW 16-11-02 Sat 2100 (HFD)
4130	S13	Russian mil. 10-count USB 01-12-02 Sun 0500 (PPs)
4165	E10	CI02 AM 30-11-02 Sat 2245 (AB)
4165.0	E10	CI02 AM 26-11-02 Tue 0020 (LC2)
4165.0	E10	AM 26-11-02 Tue 0021 (LC2)
4166	E10	CI04C9QP0 //6930//3270 AM 18-11-02 2111 (MG)
4173.0	M08a	(in progress) CW 03-11-02 Sun 1100 (MS)
4173.0	M08a	ID 58513 50652 10633 CW 10-11-02 Sun 1100 (MS)

4270 G04 70240 28211 35 gr AM 07-11-02 Thu 2100 (HFD)
 4270 G04 in progress (first time I heard G04!). QRM from E10
 USB 07-11-02 2111 (MG)
 4270.0 E10 PCD 11 TRJBR USB 07-11-02 Thu 0230 (BS4)
 4270.0 E10 (PCD) AM 14-11-02 Thu 0021 (LC2)
 4321.0 E06 no msg (00000) hight qrm USB 14-11-02 Thu 0021 (LC2)
 4328.0 M08a ID 65653 96564 08041 CW 03-11-02 Sun 1100 (MS)
 4328.0 M08a (in progress - weak signal) CW 10-11-02 Sun 1100 (MS)
 4350 M40 vvv cq611,934 (rptd) cq934 cq934 cq934 CW 01-11-02
 1200 (IB)
 4370 G04 70240 28211 35 gr AM 07-11-02 Thu 2130 (HFD)
 4370 G04 in progress. USB 07-11-02 2138 (MG)
 4461.0 E10 FTJ2 USB 03-11-02 Sun 0100 (GG)
 4461.0 E10 FTJ 105 QXRC0 USB 03-11-02 Sun 0400 (BS4)
 4461.0 E10 FTJ 80 EQXPR USB 04-11-02 Mon 0100 (BS4)
 4461.0 E10 FTJ 23 MTACP USB 05-11-02 Tue 0300 (BS4)
 4461.0 E10 FTJ 41 ?RSXG very weak USB 17-11-02 Sun 0100 (GG)
 4461.0 E10 USB 19-11-02 Tue 0100 (GG)
 4478.0 M08a ID 40513 56471 98081 (rpt of 1000z on 3025m) CW
 02-11-02 Sat 1100 (MS)
 4478.0 M08a ID 49403 77891 29271 (rpt of 1000z on 3025m) CW
 23-11-02 Sat 1100 (MS)
 4479 V02 DGI 30343-09293-76042 AM 13-11-02 Wed 0300 (TPA)
 4479.0 V02a (in progress - YL/SS) AM 06-11-02 Wed 0300 (MS)
 4490 M01 197-~~###~~/15=30313 CW 21-11-02 Thu 2000 (HFD)
 4506.0 M08a ID 18251 88051 78483 CW 06-11-02 Wed 0300 (MS)
 4506.0 M08a ID 11602 38793 44572 (rpt of 0200z on 5758m) CW
 10-11-02 Sun 0300 (MS)
 4506.0 V02a (in progress - YL/SS) AM 02-11-02 Sat 1100 (MS)
 4557.8 MX Cluster beacon "P", Kaliningrad CW 09-11-02 Sat 2255
 4558 MX Cluster beacon "C", Moscow CW 09-11-02 Sat 2255 (AB)
 4560.0 E10 YHF2/7918 USB 05-11-02 Tue 0230 (BS4)
 4585 G06 308/0 AM 04-11-02 Mon 2000 (HFD)
 4617 XP (also for first time!) AM 07-11-02 2140 (MG)
 4618 XP msg AM 12-11-02 Tue 2140 (HFD)
 4625 S28 Buzzer AM 09-11-02 Sat 2245 (AB)
 4648.0 E10 SYN2 AM 26-11-02 Tue 0020 (LC2)
 4730.0 G04 AM 07-11-02 Thu 2130 (ASC)
 4792.0 G06 436, ended with 00000 USB 15-11-02 Fri 1930 (ASC)
 4879.5 E10 2 msgs : 92 THA?? / ?? ???? USB 17-11-02 Sun 2015 (GG)
 4880.0 E10 ULX 41 BNSAH USB 02-11-02 Sat 2300 (GG)
 4880.0 E10 59 QSALK USB 03-11-02 Sun 0030 (GG)
 4880.0 E10 ULX 114 ZCGRK USB 03-11-02 Sun 0400 (BS4)
 4880.0 E10 ULX2 USB 03-11-02 Sun 0430 (BS4)
 4880.0 E10 ULX 59 QSALK USB 04-11-02 Mon 0030 (GG)
 4880.0 E10 ULX2 USB 04-11-02 Mon 2230 (GG)
 4880.0 E10 ULX 21 ??ELB USB 04-11-02 Mon 2300 (GG)
 4880.0 E10 ULX 59 QSALK USB 05-11-02 Tue 0030 (GG)

4880.0 E10 ULX in tfc USB 05-11-02 Tue 0200 (BS4)
 4880.0 E10 ULX2 USB 05-11-02 Tue 2230 (GG)
 4880.0 E10 ULX2 USB 06-11-02 Wed 0030 (GG)
 4880.0 E10 ULX2 USB 06-11-02 Wed 2230 (GG)
 4880.0 E10 ULX2 USB 07-11-02 Thu 2230 (GG)
 4880.0 E10 ULX 109 J?GMK USB 08-11-02 Fri 0030 (GG)
 4880.0 E10 ULX 2 msgs : 26 UHFAQ/42 YLQLN USB 08-11-02 Fri 2130 (GG)
 4880.0 E10 ULX2 USB 10-11-02 Sun 2230 (GG)
 4880.0 E10 ULX2 USB 14-11-02 Thu 2230 (GG)
 4880.0 E10 ULX2 USB 15-11-02 Fri 2230 (GG)
 4880.0 E10 ULX2 USB 16-11-02 Sat 2230 (GG)
 4880.0 E10 94 H?FCB USB 17-11-02 Sun 0045 (GG)
 4880.0 E10 ULX 97 HKFCB USB 18-11-02 Mon 0030 (GG)
 4880.0 E10 ULX2 USB 18-11-02 Mon 2230 (GG)
 4880.0 E10 ULX USB 19-11-02 Tue 0330 (GG)
 4880.0 E10 ULX2 USB 19-11-02 Tue 0430 (GG)
 4880.0 E10 ULX USB 19-11-02 Tue 0500 (GG)
 4880.0 E10 ULX2 USB 20-11-02 Wed 2230 (GG)
 4880.0 E10 ULX2 USB 29-11-02 Fri 2230 (GG)
 4927 M13 411 CW 03-11-02 Sun 2130 (HFD)
 4927.0 M13 411 (R5) (extremely weak signal, no further copy) CW 02-11-02 Sat 2130 (MS)
 4927.0 M13 411 (R5) BT 243 21 BT CW 17-11-02 Sun 0530 (MS)
 4927.0 M13 411 (R5) BT 243 21 BT CW 17-11-02 Sun 2130 (MS)
 5028 M10 04:15 A1A 555 555 555 3T4 3T4 3T4 18 into 5FGs ending ==3T4 3T4 3T4 18 TTT CW 01-11-02 0415 (PP)
 5091 E10 JSR AM 30-10-02 1941 (PP)
 5091.0 E10 JSR in tfc USB 03-11-02 Sun 2130 (BS4)
 5091.0 E10 JSR 92 LUVMZ (a minute or so blank at 2241z) USB 04-11-02 Mon 2230 (GG)
 5091.0 E10 JSR 114 DMMIX USB 05-11-02 Tue 2230 (GG)
 5091.0 E10 JSR 2 msgs: 72 QJGIQ/52 GYGHC USB 06-11-02 Wed 2230 (GG)
 5091.0 E10 JSR 2 msgs: 72 QJGIQ/52 GYGHC USB 07-11-02 Thu 2230 (GG)
 5091.0 E10 JSR 79 APKWB USB 09-11-02 Sat 2100 (GG)
 5091.0 E10 JSR 2 msgs : 27 UNKSB/26 FVDDK USB 09-11-02 Sat 2130 (GG)
 5091.0 E10 JSR 114 DKWEP USB 10-11-02 Sun 2230 (GG)
 5091.0 E10 JSR 114 DKWEP USB 11-11-02 Mon 2230 (GG)
 5091.0 E10 JSR 114 DKWEP USB 12-11-02 Tue 2230 (GG)
 5091.0 E10 JSR 114 DKWEP USB 14-11-02 Thu 2230 (GG)
 5091.0 E10 (JSR 2) AM 15-11-02 Fri 0020 (LC2)
 5091.0 E10 JSR 114 DKWEP USB 15-11-02 Fri 2230 (GG)
 5091.0 E10 JSR 114 DKWEP USB 16-11-02 Sat 2230 (GG)
 5091.0 E10 JSR2 USB 17-11-02 Sun 1600 (GG)
 5091.0 E10 JSR 144 D???? USB 18-11-02 Mon 2230 (GG)

5091.0 E10 JSR 2 msgs : 41 BVARY/43 J?KXL USB 24-11-02 Sun 2230 (GG)
5091.0 E10 JSR 2 msgs : 41 BVARY/43 ????? USB 25-11-02 Mon 2230 (GG)
5091.0 E10 JSR2 USB 26-11-02 Tue 2230 (GG)
5091.0 E10 JSR2 USB 27-11-02 Wed 2231 (GG)
5091.0 E10 JSR2 USB 28-11-02 Thu 2231 (GG)
5091.0 E10 JSR ?? RAWBJ heavy QRM USB 29-11-02 Fri 2030 (GG)
5091.0 E10 JSR 67 FGFPF USB 29-11-02 Fri 2230 (GG)
5103 E07 981/1 AM 04-11-02 Mon 2140 (HFD)
5103 E07 same message. AM 11-11-02 2140 (MG)
5103 E07 vy good signal quality. Same message. AM 13-11-02 2140 (MG)
5103.0 E07 981 1 418(?), weak under cw qrm AM 18-11-02 Mon 2140 (ASC)
5121 Czech or Slovak mil. CH8N clg TR2F CW 31-10-02 1831
5128 M13 261 CW 04-11-02 Mon 2000 (HFD)
5128 M13 261 CW 04-11-02 Mon 2100 (HFD)
5134.0 M08a ID 65653 96564 08041 (rpt of 1100z on 4328m) CW 03-11-02 Sun 1200 (MS)
5134.0 M08a ID 62661 18013 08042 (rpt of 1100z on 4328m) CW 10-11-02 Sun 1200 (MS)
5134.0 M08a ID 62662 77083 77851 CW 24-11-02 Sun 1200 (MS)
5135.0 V02a ID 8---- 0-331 ----- (garbled, unintelligible) AM 23-11-02 Sat 0100 (MS)
5153.7 MX Cluster beacon "D" CW 01-11-02 0439 (PP)
5153.8 MX Cluster beacon "P" CW 30-10-02 2010 (PP)
5153.8 MX Cluster beacon "P", Kaliningrad CW 09-11-02 Sat 2255
5153.9 MX Cluster beacon "S" CW 01-11-02 0441 (PP)
5153.9 MX Cluster beacon "S", Arkhangelsk CW 09-11-02 Sat 1711
5153.9 MX Cluster beacon "S", Arkhangelsk CW 17-11-02 2105 (DW)
5154 MX Cluster beacon "C" CW 30-10-02 2010 (PP)
5154 MX Cluster beacon "C", Moscow CW 09-11-02 Sat 2255 (AB)
5154 MX Cluster beacon "C", Moscow CW 17-11-02 2106 (DW)
5154 MX Cluster beacon "C" CW 30-11-02 Sat 1715 (AB)
5159 M22 Israeli navy Haifa. VVV + 5LGs CW 30-10-02 2012 (PP)
5159 M22 4XZ. Israeli navy Haifa. VVV marker CW 17-11-02 2109
5162 XP msg AM 01-11-02 Fri 2150 (HFD)
5162 XP in progress, QRM digi+CW AM 08-11-02 2149 (MG)
5170 E10 VLB2 AM 31-10-02 1747 (PP)
5170.0 E10 VLB2 USB 03-11-02 Sun 0048 (GG)
5200 Unid. YL reading 5LGs live in Russian USB 23-11-02 1402 (Pile)
5201 M21 Russian Air Defense =992245??T????? CW 31-10-02 1945 (PP)
5230 E10 SYN AM 31-10-02 1948 (PP)
5230 E10 VLB2 AM 30-11-02 Sat 2245 (AB)
5230.0 E10 SYN2 USB 06-11-02 Wed 0045 (BS4)

5230.0 E10 VLB2 (R5 - YL/EE) USB 23-11-02 Sat 0045 (MS)
5230.0 E10 VLB2 (R5 - YL/EE) USB 24-11-02 Sun 0045 (MS)
5230.0 E10 VLB2 (R5 - YL/EE) USB 26-11-02 Tue 2245 (MS)
5230.0 E10 VLB2 (R5 - YL/EE) USB 26-11-02 Tue 2345 (MS)
5270.0 E10 SYN2 USB 03-11-02 Sun 0048 (GG)
5320 M01 197-128/32=72742 CW 12-11-02 Tue 1800 (HFD)
5339 E10 MIW2 AM 09-11-02 Sat 2318 (AB)
5339.0 E10 MIW2 USB 06-11-02 Wed 0115 (BS4)
5360 M29 98/36:11 0800= 60367 CW 11-11-02 Mon 0700 (HFD)
5360 M29 98/36:11 0800= 60367 CW 12-11-02 Tue 1300 (HFD)
5415 G06 308/0 AM 04-11-02 Mon 1900 (HFD)
5417.0 V02a (in progress - YL/SS) AM 08-11-02 Fri 0200 (MS)
5417.0 V02a In prog AM 08-11-02 Fri 0205 (BM)
5435 E10 ART AM 10-11-02 Sun 0001 (AB)
5435.0 E10 ART 82 CLJKU USB 03-11-02 Sun 0400 (BS4)
5435.0 E10 ART 77 AFWMG USB 03-11-02 Sun 0430 (BS4)
5435.0 E10 ART2 USB 04-11-02 Mon 0130 (BS4)
5435.0 E10 ART in tfc USB 08-11-02 Fri 2300 (BS4)
5435.0 E10 in progress USB 17-11-02 Sun 0004 (GG)
5435.0 E10 ART2 (R5 - YL/EE) USB 23-11-02 Sat 0130 (MS)
5435.0 E10 ART (R5) USB 26-11-02 Tue 2330 (MS)
5435.0 E10 ART 120 ????? USB 29-11-02 Fri 2000 (GG)
5448 M13A 847/000 CW 12-11-02 Tue 2100 (HFD)
5460 M29 98/36:11 0800= 60367 CW 11-11-02 Mon 0730 (HFD)
5460 M29 98/36:11 0800= 60367 CW 12-11-02 Tue 1330 (HFD)
5465 M01 197-707/34=96716 CW 10-11-02 Sun 0700 (HFD)
5465 MX Channel marker "R", Izhevsk CW 09-11-02 Sat 2259 (AB)
5522 M13 501 CW 10-11-02 Sun 2215 (HFD)
5522 M13 501 CW 24-11-02 Sun 2215 (HFD)
5530 E15 in progress! ("...Adam Xray Yuri Yuri Roma...") Ended
2011z USB 07-11-02 2009 (MG)
5634 Chinese mil GM3Z GM3Z GM3Z DE GNW9 GNW9 CW 06-11-02
(IA)
5758.0 M08a ID 11602 38793 44572 CW 10-11-02 Sun 0200 (MS)
5758.0 M08a ID 91762 87571 62041 CW 13-11-02 Wed 0200 (MS)
5758.0 M08a (in progress) CW 17-11-02 Sun 0200 (MS)
5781 XP msg AM 12-11-02 Tue 2120 (HFD)
5810 M01 197-713/30=43409 CW 16-11-02 Sat 1500 (HFD)
5820.0 E10 in progress USB 19-11-02 Tue 0404 (GG)
5899 E07 981/1 AM 04-11-02 Mon 2120 (HFD)
5899 E07 heavy QRM from Radio Bulgaria? Same message. AM
13-11-02 2120 (MG)
5899.0 E07 unreadable but recognizable, heavy bc qrm AM 18-11-02
Mon 2120 (ASC)
6270 E10 in progress AM 12-10-02 2307 (AHL)
6270.0 E10 ULX 91 ATUGY/7760 USB 04-11-02 Mon 0100 (BS4)
6270.0 E10 ULX 91 ATUGY USB 06-11-02 Wed 0100 (BS4)
6270.0 E10 ULX in tfc USB 08-11-02 Fri 2300 (BS4)

6270.0 E10 (ULX 2) AM 17-11-02 Sun 0022 (LC2)
6270.0 E10 ULX2 USB 17-11-02 Sun 1600 (GG)
6270.0 E10 (in progress - very weak) USB 23-11-02 Sat 0100 (MS)
6270.0 E10 ULX 91 ATUGY USB 26-11-02 Tue 0100 (GG)
6427.0 M13 261 (R5) BT 262 2. BT (very weak - QRM heavy) CW
17-11-02 Sun 2100 (MS)
6428 E10 ABC with problems. Says "Alpha", stops and after a
while continues with "Bravo Charlie" AM 07-11-02 1231
6428 M13 261 CW 03-11-02 Sun 2000 (HFD)
6428 M13 261 CW 03-11-02 Sun 2100 (HFD)
6428 M13 261 CW 17-11-02 Sun 2000 (HFD)
6428 M13 261 CW 17-11-02 Sun 2100 (HFD)
6428.0 M13 for 261 / 262 20 / msg QSA 5 CW 17-11-02 Sun 0021
6445 XSL Slot Machine FSK 06-11-02 0721 (DT0)
6445 XSL QRM digi USB 12-11-02 2142 (MG)
6445 XSL QRM digi USB 13-11-02 1942 (MG)
6485.0 E03 //8464//??? (37876) USB 17-11-02 Sun 0022 (LC2)
6498.0 E10 PCD in tfc USB 03-11-02 Sun 0430 (BS4)
6498.0 E10 PCD in tfc USB 03-11-02 Sun 2130 (BS4)
6498.0 E10 PCD in tfc USB 04-11-02 Mon 0030 (BS4)
6498.0 E10 in progress AM 17-11-02 Sun 0022 (LC2)
6575.0 M23 555 (R10) CW 06-11-02 Wed 0700 (MS)
6697 M08 in progress CW 23-11-02 (AHL)
6709 M29 17/33: 5 1005= 34541 CW 19-11-02 Mon 0905 (HFD)
6758 M10 555*3 CW 13-11-02 Wed 0211 (TPA)
6767.0 M08a ID 11152 11053 50972 CW 03-11-02 Sun 1200 (MS)
6767.0 M08a ID 67661 01733 11603 CW 10-11-02 Sun 1200 (MS)
6767.0 M08a ID 43922 45113 98702 CW 24-11-02 Sun 1200 (MS)
6781 XP msg AM 01-11-02 Fri 2130 (HFD)
6781 XP in progr. QRM RTTY AM 08-11-02 2130 (MG)
6781 XP null msg. QRM digi. AM 29-11-02 2130 (MG)
6785.0 M08a ID 18252 18962 12212 (rpt of 1200z on 6854m) CW
06-11-02 Wed 1300 (MS)
6787 XP msg AM 12-11-02 Tue 2100 (HFD)
6796.0 M08a (in progress) CW 02-11-02 Sat 1200 (MS)
6796.0 M08a (in progress) CW 09-11-02 Sat 1200 (MS)
6796.0 M08a ID 38793 01132 11602 (very weak signal) CW 09-11-02
Sat 1300 (MS)
6796.0 M08a (in progress) CW 23-11-02 Sat 1200 (MS)
6797 M22 4XZ. Israeli navy Haifa. VVV marker CW 20-11-02 2107
6797.0 M08a (in progress) CW 06-11-02 Wed 1200 (MS)
6797.0 M08a ID 44952 79633 37453 CW 10-11-02 Sun 1200 (MS)
6797.0 M08a ID 60751 13092 81802 CW 24-11-02 Sun 1200 (MS)
6809 M29 17/37: 5 1005= 34541 CW 19-11-02 Tue 0935 (HFD)
6810 M29 68/36:55 0800= 05765 CW 12-11-02 Tue 0700 (HFD)
6837.0 M13 272 (R5) BT 262 21 BT CW 05-11-02 Tue 2200 (MS)
6840.0 E10 EZI2 USB 03-11-02 Sun 0100 (GG)
6840.0 E10 EZI 35 PEUYU/9130 USB 05-11-02 Tue 0230 (BS4)

6840.0	E10	EZI 35 PEUYU/9130 USB 07-11-02 Thu 0230 (BS4)
6840.0	E10	EZI 35 PEUYU/9130 USB 10-11-02 Sun 0230 (BS4)
6840.0	E10	EZI 149 NDKZK USB 11-11-02 Mon 0130 (BS4)
6854.0	M08a	ID 18252 18962 12212 CW 06-11-02 Wed 1200 (MS)
6855	V02	DGI 09451-47741-25503 AM 11-04-02 Mon 0300 (TPA)
6855	V02	DGI 79452-32460-32251 AM 11-11-02 Mon (TPA)
6855	V02	DGI 79543-22181-62272 AM 18-11-02 Mon 0300 (TPA)
6855	V02	DGI 70421-70951-62252 AM 25-11-02 Mon 0259 (TPA)
6866.0	M08a	(in progress) CW 09-11-02 Sat 1300 (MS)
6900.0	E03	90267 USB 09-11-02 Sat 2000 (GG)
6910	M29	68/31:55 0800= 05765 CW 12-11-02 Tue 0730 (HFD)
6912	E10	CI02 AM 12-10-02 0145 (AHL)
6912	E10	SYN2 AM 30-11-02 Sat 2245 (AB)
6912.0	E10	CI02 USB 03-11-02 Sun 0048 (GG)
6912.0	E10	CI02 (R5) LSB 03-11-02 Sun 0345 (MS)
6912.0	E10	CI02 USB 10-11-02 Sun 0245 (BS4)
6912.0	E10	CIO 2 (R5) USB 14-11-02 Thu 2245 (MS)
6912.0	E10	CI02 (R5 - YL/EE) USB 15-11-02 Fri 2245 (MS)
6912.0	E10	CI02 (R5 - YL/EE) USB 16-11-02 Sat 2245 (MS)
6912.0	E10	SYN2 (R5 - YL/EE) USB 17-11-02 Sun 0145 (MS)
6912.0	E10	SYN2 (R5 - YL/EE) USB 17-11-02 Sun 0345 (MS)
6912.0	E10	SYN2 (R5 - YL/EE) USB 17-11-02 Sun 0445 (MS)
6912.0	E10	SYN2 (R5 - YL/EE) USB 17-11-02 Sun 0545 (MS)
6912.0	E10	SYN2 (R5 - YL/EE) USB 17-11-02 Sun 2145 (MS)
6912.0	E10	SYN2 (R5 - YL/EE) USB 17-11-02 Sun 2245 (MS)
6912.0	E10	SYN2 (R5 - YL/EE) USB 17-11-02 Sun 2345 (MS)
6912.0	E10	SYN2 (R5 - YL/EE) USB 18-11-02 Mon 0045 (MS)
6912.0	E10	SYN2 (R5 - YL/EE) USB 18-11-02 Mon 2345 (MS)
6912.0	E10	SYN2 (R5 - YL/EE) USB 19-11-02 Tue 2145 (MS)
6912.0	E10	SYN2 (R5 - YL/EE) USB 19-11-02 Tue 2245 (MS)
6912.0	E10	SYN2 (R5 - YL/EE) USB 20-11-02 Wed 2245 (MS)
6912.0	E10	SYN2 (R5 - YL/EE) USB 21-11-02 Thu 2245 (MS)
6912.0	E10	SYN2 (R5 - YL/EE) USB 21-11-02 Thu 2345 (MS)
6912.0	E10	SYN2 (R5 - YL/EE) USB 23-11-02 Sat 0045 (MS)
6912.0	E10	SYN2 (R5 - YL/EE) USB 23-11-02 Sat 0145 (MS)
6912.0	E10	SYN2 (R5 - YL/EE) USB 24-11-02 Sun 0045 (MS)
6912.0	E10	SYN2 (R5 - YL/EE) USB 24-11-02 Sun 2245 (MS)
6912.0	E10	SYN2 (R5 - YL/EE) USB 26-11-02 Tue 2245 (MS)
6912.0	E10	SYN2 (R5 - YL/EE) USB 26-11-02 Tue 2345 (MS)
6930	E10	VLB31 AM 06-11-02 1300 (MG)
6930	E10	VLB95Z16Z1900 AM 06-11-02 1730 (MG)
6930	E10	CI02 AM 30-11-02 Sat 2245 (AB)
6930.0	E10	VLB2 USB 03-11-02 Sun 0048 (GG)
6930.0	E10	VLB2 USB 10-11-02 Sun 0245 (BS4)
6930.0	E10	CI02 (R5 - YL/EE) USB 23-11-02 Sat 0045 (MS)
6930.0	E10	CI02 (R5 - YL/EE) USB 23-11-02 Sat 0145 (MS)
6930.0	E10	CI02 (R5 - YL/EE) USB 24-11-02 Sun 2245 (MS)
6932.0	M08a	ID 44951 79632 37452 CW 09-11-02 Sat 1200 (MS)

6932.0 M08a ID 39451 49283 14043 CW 23-11-02 Sat 1300 (MS)
6933.0 M08a ID 12523 13091 81801 CW 23-11-02 Sat 1200 (MS)
6934 E07 913/0 AM 06-11-02 Wed 0610 (HFD)
6934 E07 913/0 AM 13-11-02 Wed 0610 (HFD)
6959 E03 MI6 36661 USB 11-04-02 Mon 2203 (TPA)
6960.0 E03 //5746//9251 in progress USB 17-11-02 Sun 0021 (LC2)
6964 E07 981/1 AM 04-11-02 Mon 2100 (HFD)
6964 E07 good signal "981 981 981 1 252 31 08653..." (also first time!) AM 11-11-02 2100 (MG)
6964 E07 same message as of 11/11/02 2100z AM 13-11-02 2100
6970.0 E05 in progress USB 12-11-02 Tue 2130 (ASC)
6982.0 M08a ID 11152 11053 50972 (rpt of 1200z on 6767m) CW 03-11-02 Sun 1300 (MS)
6982.0 M08a ID 67661 01733 11603 (rpt of 1200z on 6767m) CW 10-11-02 Sun 1300 (MS)
6982.0 M08a ID 43922 45113 98702 (rpt of 1200z on 6767m) CW 24-11-02 Sun 1300 (MS)
6986.0 E10 in progress USB 19-11-02 Tue 0405 (GG)
7038.9 MX Cluster beacon "S", Arkhangelsk CW 09-11-02 Sat 1711
7039 MX Cluster beacon "C" CW 30-11-02 Sat 1715 (AB)
7320.0 M08a (garbled - Cuban AM carrier on top of CW signal. CW 06-11-02 Wed 1300 (MS)
7320.0 M08a ID 44952 79633 37453 (rpt of 1200z on 6797m - send AM 10-11-02 Sun 1300 (MS)
7320.0 M08a ID 60751 13092 81802 (rpt of 1200z on 6797m) CW 24-11-02 Sun 1300 (MS)
7358.0 E10 FTJ USB 02-11-02 Sat 2100 (BS4)
7415 M13 254 CW 21-11-02 Thu 2200 (HFD)
7445.0 E10 KPA2 USB 05-11-02 Tue 0215 (BS4)
7519.0 M08a ID 44032 70353 70863 CW 04-11-02 Mon 2200 (MS)
7519.0 M08a ID 85831 98782 90542 CW 11-11-02 Mon 2200 (MS)
7519.0 M08a ID 85833 66491 31481 CW 13-11-02 Wed 2200 (MS)
7519.0 M08a ID 56312 66493 22802 CW 15-11-02 Fri 2200 (MS)
7519.0 M08a ID 52962 76893 39903 CW 20-11-02 Wed 2200 (MS)
7526.0 M08a (in progress) CW 05-11-02 Tue 2200 (MS)
7526.0 M08a ID 85832 98783 90543 CW 12-11-02 Tue 2200 (MS)
7526.0 M08a ID 52961 76892 39902 CW 19-11-02 Tue 2200 (MS)
7526.0 M08a ID 50063 62251 88441 CW 26-11-02 Tue 2200 (MS)
7540.0 E10 JSR 60 TAEBJ USB 02-11-02 Sat 2030 (BS4)
7555.0 M08a ID 60433 58423 92913 CW 04-11-02 Mon 0800 (MS)
7555.0 M08a ID 09451 63232 36242 CW 06-11-02 Wed 0800 (MS)
7555.0 M08a (early start - tfc in progress) CW 13-11-02 Wed 0800
7555.0 M08a ID 05993 33482 80602 CW 22-11-02 Fri 0800 (MS)
7555.0 M08a ID 98542 43721 41661 CW 27-11-02 Wed 0800 (MS)
7555.0 V02a ID 96781 37773 02402 (YL/SS) (rpt of 0200z on 7887 USB 10-11-02 Sun 0300 (MS)
7556.0 M08a ID 05991 76433 62283 CW 20-11-02 Wed 0800 (MS)
7580.0 M08a ID 23281 40071 69901 CW 05-11-02 Tue 0800 (MS)

7603.0 S06 "398 398 398 00000" usb 23-11-02 Sat 1600 (AF)
7605.0 E10 MIW2 USB 05-11-02 Tue 0215 (BS4)
7640 S06c OM repeated many times something like 11391. Ends
1308z USB 21-11-02 1307 (MG)
7644.0 M12 (in progress - 5f - pause at end of msg) 000 000 CW
04-11-02 Mon 2233 (MS)
7644.0 M12 269x3 0 0 0 (R2) (null sked) CW 11-11-02 Mon 2230 (MS)
7680.0 M08a (in progress - up early) CW 17-11-02 Sun 0800 (MS)
7681.0 V02a ID 19872 62882 57552 (YL/SS) AM 06-11-02 Wed 0900 (MS)
7689.0 E10 SYN2 AM 06-11-02 Wed 0045 (BS4)
7727 XP msg AM 01-11-02 Fri 2110 (HFD)
7727 XP in progr. AM 08-11-02 2110 (MG)
7727 XP null msg. Good signal quality. AM 29-11-02 2110 (MG)
7760.0 E10 ULX 91 ATUGY/6270 USB 04-11-02 Mon 0100 (BS4)
7760.0 E10 ULX 91 ATUGY USB 09-11-02 Sat 0100 (BS4)
7760.0 E10 ULX2 USB 17-11-02 Sun 1600 (GG)
7760.0 E10 in progress USB 19-11-02 Tue 0110 (GG)
7760.0 E10 (in progress - very weak) USB 23-11-02 Sat 0100 (MS)
7760.0 E10 ULX 91 ATUGY USB 24-11-02 Sun 0100 (GG)
7760.0 E10 ULX 91 ATUGY USB 26-11-02 Tue 0100 (GG)
7760.0 E10 ULX 91 ATUGY USB 28-11-02 Thu 0100 (GG)
7760.0 E10 ULX 91 ATUGY USB 29-11-02 Fri 0100 (GG)
7863.0 V02 922 08 (YL/SS) AM 03-11-02 Sun 1100 (MS)
7887.0 V02a ID 96781 37773 02402 (YL/SS) USB 10-11-02 Sun 0200
7887.0 V02a (in progress - YL/EE) AM 17-11-02 Sun 0200 (MS)
7889.0 M08a ID 39451 49283 14043 (rpt of 1300z on 6932m) CW
23-11-02 Sat 1400 (MS)
7890.0 M08a ID 67363 62901 50351 CW 02-11-02 Sat 1300 (MS)
7890.0 M08a (in progress - normally V2a sked here at this time CW
09-11-02 Sat 1300 (MS)
7890.0 M08a ID 44951 79632 37452 (rpt of 1200z on 6932m) CW
09-11-02 Sat 1300 (MS)
7890.0 M08a ID 12523 13091 81801 (rpt of 1200z on 6796m) CW
23-11-02 Sat 1300 (MS)
7918.0 E10 YHF 2 msgs 67 CNNGR/40 DSVWV USB 04-11-02 Mon 0130
(BS4)
7918.0 E10 YHF2 USB 05-11-02 Tue 0200 (BS4)
7918.0 E10 YHF2/4560 USB 05-11-02 Tue 0230 (BS4)
8009.0 M08a (QRM blocks transmission) CW 07-11-02 Thu 2200 (MS)
8009.0 M08a ID 85831 98782 90542 (rpt of 2200z on 7519m) CW
11-11-02 Mon 2300 (MS)
8009.0 M08a ID 85833 66491 31481 (rpt of 2200z on 7519m) CW
13-11-02 Wed 2300 (MS)
8009.0 M08a ID 56311 66492 22801 CW 14-11-02 Thu 2200 (MS)
8009.0 M08a ID 52962 76893 39903 (rpt of 2200z on 7519m) CW
20-11-02 Wed 2300 (MS)
8009.0 M08a ID 52963 94201 73661 CW 21-11-02 Thu 2200 (MS)
8010 V02a in prog. Poor audio quality. Finished at 0641z,

"Final" x3 (also for first time!) AM 13-11-02 0626
 8040.0 V02 A 728/05 - single recipient variant AM 07-11-02 Thu
 8088 E11 "183 Oblique 00" 1305z "out" AM 19-11-02 1303 (MG)
 8096.0 M08a ID 60432 ----- (in progress) CW 03-11-02 Sun
 8097.0 V02a In prog AM 07-11-02 Thu 0600 (BM)
 8103 E07 no message. AM 13-11-02 0630 (MG)
 8103 E07 913/0 AM 13-11-02 Wed 0630 (HFD)
 8110.0 E05 173x3 1234567890 (R10) (YL/EE) USB 12-11-02 Tue 2100
 (MS)
 8110.0 E05 in progress USB 12-11-02 Tue 2130 (ASC)
 8110.0 S06 "793 582 61 56276..." usb 23-11-02 Sat 1700 (AF)
 8135.0 M08a (in progress) CW 05-11-02 Tue 2300 (MS)
 8135.0 M08a ID 01192 96933 67703 (rpt of 2200z sked on 8009m) CW
 07-11-02 Thu 2300 (MS)
 8135.0 M08a ID 85832 98783 90543 (rpt of 2200z on 7526m) CW
 12-11-02 Tue 2300 (MS)
 8135.0 M08a ID 56311 66492 22801 (rpt of 2200z on 8009m) CW
 14-11-02 Thu 2300 (MS)
 8135.0 M08a ID 56312 66493 22802 (rpt of 2200z on 7519m) CW
 15-11-02 Fri 2300 (MS)
 8135.0 M08a ID 52961 76892 39902 (rpt of 2200z on 7526m) CW
 19-11-02 Tue 2300 (MS)
 8135.0 M08a ID 52963 94201 73661 (rpt of 2200z on 8009m) CW
 21-11-02 Thu 2300 (MS)
 8135.0 M08a ID 50063 62251 88441 (rpt of 2200z on 7526m) CW
 26-11-02 Tue 2300 (MS)
 8136 V2-type voice numbers, incredibly distorted, then into
 CW cut-numbers 5FGs USB+CW 06-11-02 0704 (DT0)
 8136.0 M08a (in progress) CW 02-11-02 Sat 1100 (MS)
 8136.0 M08a (in progress) CW 06-11-02 Wed 0700 (MS)
 8136.0 M08a ID 93143 66042 73412 CW 23-11-02 Sat 1100 (MS)
 8175.0 S10d USB 30-11-02 Sat 1524 (ASC)
 8185.0 V02a (in progress - YL/SS) AM 02-11-02 Sat 1200 (MS)
 8185.0 V02a ID 72502 24172 70042 AM 09-11-02 Sat 1200 (MS)
 8186.0 V02a ID 99220 93030 83090 (YL/SS) AM 23-11-02 Sat 1200 (MS)
 8271.0 M13 517 (R5) (too weak for copy) CW 18-11-02 Mon 2000 (MS)
 8271.0 M13 517 (R5) BT 223 23 BT CW 18-11-02 Mon 2100 (MS)
 8300.0 V13 Star Star; in progress AM 13-11-02 Wed 1405 (BM)
 8313 XSL Slot Machine FSK 06-11-02 0721 (DT0)
 8492 V02 Spanish YL many times "Atencion 421 03", then "03"
 many times. 5-figure numbers, ends 2 AM 29-11-02 2205
 8492 V02 again, QRM digi. AM 29-11-02 2230 (MG)
 8494.9 MX Cluster beacon "S", Arkhangelsk CW 09-11-02 Sat 1711
 8495 MX Cluster beacon "C" CW 30-11-02 Sat 1715 (AB)
 8588 XSL Slot Machine FSK 06-11-02 0721 (DT0)
 8588 XSL QRM digi USB 12-11-02 2126 (MG)
 8703.5 XSL Slot Machine FSK 06-11-02 0721 (DT0)
 9004.5 XM Backward Music station 17-11-02 1100 (GN)

9044.0 M13 823 (R5) BT 218 22 BT CW 06-11-02 Wed 0700 (MS)
 9062 V02a in prog. Heavy QRN. AM 13-11-02 0724 (MG)
 9062.0 M08a ID 88602 73893 72152 (rpt of 0400z on 10235m) CW
 03-11-02 Sun 0500 (MS)
 9062.0 M08a ID 72031 74221 11583 (rpt of 0400z on 10235m) CW
 10-11-02 Sun 0500 (MS)
 9062.0 M08a ID 72033 36762 20021 (rpt of 0400z on 10235m) CW
 17-11-02 Sun 0500 (MS)
 9063.0 V02a ID ----- 69302 ----- (in progress - YL/SS) AM 06-11-02
 Wed 0700 (MS)
 9063.0 V02a In prog; A ----- 9063; new sked? AM 14-11-02 Thu
 0130 (BM)
 9090 E05 CIA Heavy QRM AM 11-04-02 Mon 2200 (TPA)
 9090 E05 CIA 748 AM 11-11-02 Mon 2207 (TPA)
 9130.0 E10 EZI AM 02-11-02 Sat 0020 (LC2)
 9130.0 E10 EZI USB 02-11-02 Sat 1900 (BS4)
 9130.0 E10 EZI 74 MKLQD USB 02-11-02 Sat 2000 (BS4)
 9130.0 E10 EZI 84 YHACN USB 02-11-02 Sat 2030 (BS4)
 9130.0 E10 EZI2 USB 04-11-02 Mon 0100 (BS4)
 9130.0 E10 EZI 149 NDKZK USB 04-11-02 Mon 0130 (BS4)
 9130.0 E10 EZI2 USB 05-11-02 Tue 0200 (BS4)
 9130.0 E10 EZI 35 PEUYU/6840 USB 05-11-02 Tue 0230 (BS4)
 9130.0 E10 EZI 63 NADMY USB 05-11-02 Tue 0300 (BS4)
 9130.0 E10 EZI 35 PEUYU/6840 USB 07-11-02 Thu 0230 (BS4)
 9130.0 E10 EZI 35 PEUYU/6840 USB 10-11-02 Sun 0230 (BS4)
 9130.0 E10 EZI2 USB 19-11-02 Tue 0100 (GG)
 9130.0 E10 EZI USB 19-11-02 Tue 0130 (GG)
 9152.0 M08a (in progress) CW 02-11-02 Sat 1200 (MS)
 9152.0 M08a ID 73422 43221 11583 CW 09-11-02 Sat 1200 (MS)
 9152.0 M08a ID 93143 66042 73412 (rpt of 1100z on 8136m) CW
 23-11-02 Sat 1200 (MS)
 9153.0 M08a ID 52862 10663 34491 CW 06-11-02 Wed 1000 (MS)
 9153.0 V02a ID 15853 61652 69301 (YL/SS) AM 02-11-02 Sat 0700 (MS)
 9153.0 V02a In prog AM 07-11-02 Thu 0700 (BM)
 9165 S17C 85030 AM 03-11-02 Sun 1250 (HFD)
 9165 S17C 12035 AM 09-11-02 Sat 1250 (HFD)
 9165 S17C 72031 AM 10-11-02 Sun 1250 (HFD)
 9165 S17C 92033 AM 16-11-02 Sat 1250 (HFD)
 9165 S17C 99032 AM 21-11-02 Thu 1250 (HFD)
 9165 S17C 99032 AM 23-11-02 Sat 1250 (HFD)
 9165 S17C 96031 AM 24-11-02 Sun 1250 (HFD)
 9165.0 S17c USB 10-11-02 Sun 1250 (ASC)
 9165.0 S17c USB 14-11-02 Thu 1250 (ASC)
 9165.0 S17c USB 30-11-02 Sat 1250 (ASC)
 9238.0 M08a (in progress) CW 03-11-02 Sun 1100 (MS)
 9238.0 M08a ID 09451 63232 36242 (rpt of 0800z on 7555m) CW
 06-11-02 Wed 0900 (MS)
 9238.0 M08a ID 35082 44902 77181 CW 10-11-02 Sun 1100 (MS)

9251.0 E03 25330x10 (music) (R10) (YL/EE) USB 14-11-02 Thu 2100 (MS)
 9251.0 E03 71644x10 (music (R10) YL/EE) USB 15-11-02 Fri 2200
 9252.0 M13 714 (R5) (blocked by E3 on 9251m) CW 14-11-02 Thu 2100 (MS)
 9252.0 M13 714 (R5) BT 218 21 BT CW 15-11-02 Fri 2100 (MS)
 9323.0 M08a ID 89741 98631 77393 CW 02-11-02 Sat 1000 (MS)
 9323.0 M08a ID 40911 75481 71983 CW 23-11-02 Sat 1000 (MS)
 9323.0 V02 ID=?? In progress. Severe overmodulation. AM 14-11-02 Thu 0427 (BS2)
 9330.0 M08a (in progress) CW 06-11-02 Wed 0400 (MS)
 9331.0 M08a ID 46294 35137 73421 CW 06-11-02 Wed 1000 (MS)
 9355 M13 253 CW 21-11-02 Thu 2100 (HFD)
 9355.0 M13 253 (R5) (QRM - music blocks) CW 07-11-02 Thu 2100
 9355.0 M13 253 (R5) (barely readable, blkd by German music/vo CW 21-11-02 Thu 2100 (MS)
 10125.0 M08a ID 20232 41912 10443 CW 23-11-02 Sat 0400 (MS)
 10126.0 M08a ID 64913 08711 27281 (rpt of 0800z on 11432m) CW 02-11-02 Sat 0900 (MS)
 10126.0 M08a ID 46294 35137 73421 (rpt of 1000z on 9331m) CW 06-11-02 Wed 1100 (MS)
 10220 E06 203-706/38=50107 AM 10-11-02 Sun 1330 (HFD)
 10220.0 E06 203 706 38 AM 10-11-02 Sun 1330 (ASC)
 10220.0 E06 "203 657 141 54854..." usb 24-11-02 Sun 1330 (AF)
 10225.0 E06 203 815 234 USB 30-11-02 Sat 1330 (ASC)
 10225.0 E06 "203 815 234 48477..." usb 30-11-02 Sat 1330 (AF)
 10235.0 M08a ID 88602 73893 72152 CW 03-11-02 Sun 0400 (MS)
 10235.0 M08a ID 72031 74221 11583 CW 10-11-02 Sun 0400 (MS)
 10235.0 M08a ID 72033 36762 20021 CW 17-11-02 Sun 0400 (MS)
 10236.0 M08a ID 59603 62191 41571 CW 17-11-02 Sun 0800 (MS)
 10344.0 M08a In prog CW 14-11-02 Thu 0335 (BM)
 10346.0 M08a ID 89741 98631 77393 (rpt of 1000z on 9323m) CW 02-11-02 Sat 1100 (MS)
 10346.0 M08a ID 40911 75481 71983 (rpt of 1000z on 9323m) CW 23-11-02 Sat 1100 (MS)
 10445.0 M08a In prog CW 14-11-02 Thu 0330 (BM)
 10446 M08 DGI CW 11-07-02 Thu 0314 (TPA)
 10446 V02 DGI 82153-58661-53551. Two V02's on the same freq ! AM 11-04-02 Mon 0300 (TPA)
 10446 V02 DGI 95173-37771-06741 AM 11-06-02 Wed 0300 (TPA)
 10446 V02 DGI 75002-58773-53553 AM 18-11-02 Mon 0300 (TPA)
 10446 V02 DGI 97452-74571-22691 AM 25-11-02 Mon 0300 (TPA)
 10446.0 M08a ID 64912 35764 72014 CW 01-11-02 Fri 0800 (MS)
 10446.0 M08a ID 61812 63373 20093 CW 13-11-02 Wed 0800 (MS)
 10446.0 M08a ID 59482 35081 06361 CW 15-11-02 Fri 0800 (MS)
 10446.0 M08a ID 18991 24323 81643 CW 18-11-02 Mon 0800 (MS)
 10446.0 M08a (in progress - late start) CW 20-11-02 Wed 0800 (MS)
 10446.0 M08a ID 58632 40443 45173 CW 22-11-02 Fri 0800 (MS)

10446.0 M08a ID 53562 75323 74143 CW 25-11-02 Mon 0800 (MS)
10446.0 M08a ID 06461 90662 07282 CW 27-11-02 Wed 0800 (MS)
10446.0 M22 VVV DE 4XZ CW 08-11-02 Fri 0202 (BM)
10515 M87 651 651 651 651 651 000 CW 06-11-02 2300 (IB)
10649.0 E10 ID=YHF? count=31 In progress. Occasional voice int AM
14-11-02 Thu 0439 (BS2)
10672 V02a Heavy humm AM 11-11-02 0602 (Vambo)
10672.0 V02a Just started. S9. carrier into full quieting bu AM
11-11-02 Mon 0006 (Vambo)
10715.0 M08a ID 52862 10663 34491 (rpt of 1000z on 9153m) CW
06-11-02 Wed 1100 (MS)
10870.0 M23 in prog; repeating 555; poss 310 mixing in bg CW
13-11-02 Wed 0137 (BM)
10871.9 MX "S" Arkhangelsk CW 08-11-02 Fri 0110 (BM)
10871.9 MX Cluster beacon "S", Arkhangelsk CW 09-11-02 Sat 1711
10871.9 MX Arkhangelsk "S" CW 13-11-02 Wed 0141 (BM)
10872 MX Cluster beacon "C" CW 30-11-02 Sat 1715 (AB)
11116 E11 "232 Oblique 00" 0805z "out" USB 08-11-02 0800 (MG)
11432.0 M08a ID 64913 08711 27281 CW 02-11-02 Sat 0800 (MS)
11432.0 M08a (in progress) CW 05-11-02 Tue 0800 (MS)
11432.0 M08a ID 59481 40633 55743 CW 14-11-02 Thu 0800 (MS)
11432.0 M08a ID 18992 24324 81644 CW 19-11-02 Tue 0800 (MS)
11432.0 M08a ID 58631 40442 45172 CW 21-11-02 Thu 0800 (MS)
11432.0 M08a ID 53563 90661 07281 CW 26-11-02 Tue 0800 (MS)
11459.5 M42 FAPSI. Msg on link 60047 RTTY 01-11-02 1637 (RH2)
11472 M42 Dep. of State Comms Moscow PSK+MFSK 01-11-02 1543
(LDO)
11545.0 E03 11545//6900//10426 USB 02-11-02 Sat 0020 (LC2)
11545.0 E03 6959//9251//11545 (93522) USB 02-11-02 Sat 0022 (LC2)
11545.0 E03 11545//13375//??? USB 04-11-02 Mon 0016 (LC2)
11545.0 E03 11545//14487//16084 (33661) USB 06-11-02 Wed 0015
11545.0 E03 noisy 71644 USB 17-11-02 Sun 1600 (GG)
11545.0 E03 37543 (R10 - YL/EE) USB 18-11-02 Mon 2200 (MS)
11565 V02 DGI 94172-82152-33342. QRM from E10 AM 11-01-02 Fri
0300 (TPA)
11565.0 E10 EZI2 USB 08-11-02 Fri 0100 (BM)
11565.0 E10 EZI USB 17-11-02 Sun 1600 (GG)
11565.0 M08a ID 93011 79511 60891 CW 23-11-02 Sat 0400 (MS)
12150 M87 698 698 698 698 698 698 698 698 000 000 CW
01-11-02 1300 (IB)
12210 E06 203-706/38=50107 AM 10-11-02 Sun 1230 (HFD)
12210.0 E06 203 706 38 AM 10-11-02 Sun 1230 (ASC)
12210.0 E06 "203 815 234 48477..." usb 30-11-02 Sat 1230 (AF)
12210.0 E06 203 815 234 USB 30-11-02 Sat 1230 (ASC)
12215.0 V02a In prog; another V2a faint in bg. AM 08-11-02 Fri 0207
12603 E03 MI6 29146 USB 29-11-02 Fri 1602 (TPA)
12603.0 E03 12603//9251//7337 (58661) USB 04-11-02 Mon 0019 (LC2)
13527.9 MX Cluster beacon "S" CW 30-11-02 Sat 1047 (AB)

13528	MX	Cluster beacon "C" CW 30-11-02 Sat 1047 (AB)
13533.0	E10	EZI 74 NHSFD USB 02-11-02 Sat 1830 (BS4)
13533.0	E10	EZI2 USB 02-11-02 Sat 1930 (BS4)
13533.0	E10	EZI 74 MKLQD USB 02-11-02 Sat 2000 (BS4)
13533.0	E10	EZI 22 VCOAR USB 09-11-02 Sat 1830 (BS4)
13550	S06	in progress. Ends 00000 AM 1413 (PP)
13577	XP	msg AM 12-11-02 Tue 0700 (HFD)
13577	XP	msg AM 26-11-02 Tue 0700 (HFD)
13888	M42	FAPSI. Msg to RAU on link 00070 RTTY 06-11-02 0700
13906	E05	id 212 AM 24-11-02 1200 (AB)
13906.0	E05	in progress USB 10-11-02 Sun 1230 (ASC)
13987	X06	FAPSI. Mazielka call, followed by CW callup and RTTY to URO on link 60047 RTTY 16-11-02 1600 (JS3)
14487.0	E03	14487//15682//16084 USB 06-11-02 Wed 0013 (LC2)
14487.0	E03	14487//12603//??? (90262) USB 06-11-02 Wed 0017 (LC2)
14638	M42	Dep. of State Comms Moscow. Msg on link 30011 MFSK 02-11-02 0905 (LDO)
14738	E05	Counting station AM 24-11-02 (BC3)
14739.0	E05	029 count 215 //16198 USB 10-11-02 Sun 1500 (ASC)
14739.0	E05	029 count 215 //16198 USB 12-11-02 Tue 1500 (ASC)
15682.0	E03	15682//16084//14487 (58661) USB 07-11-02 Thu 0014
15682.0	E03	Already in progress when I tuned in. USB 19-11-02 Tue 0013 (CA2)
15732	E05	id 212 AM 24-11-02 1200 (AB)
15833	E05	Counting station USB 1221 (PP)
15833	E05	id 703 AM 24-11-02 1200 (AB)
15833.0	E05	in progress USB 10-11-02 Sun 1230 (ASC)
16084	E03	MI6 29146 USB 20-11-02 Fri 1600 (TPA)
16084.0	E03	Already in progress when I tuned in. USB 19-11-02 Tue 0130 (CA2)
16198.0	E05	029 count 215 //14739 USB 10-11-02 Sun 1500 (ASC)
16198.0	E05	029 count 215 //14739 USB 12-11-02 Tue 1500 (ASC)
16331.7	MX	Cluster beacon "D" CW 04-11-02 1645 (RH2)
16331.9	MX	Cluster beacon "S", Arkhangelsk CW 09-11-02 1130 (MC)
16331.9	MX	Cluster beacon "S", Arkhangelsk CW 09-11-02 Sat 1711
16332	MX	Cluster beacon "C" CW 30-10-02 1550 (RH2)
16332	X06	FAPSI. Mazielka calls + M42 transmission MFSK 25-11-02 1535 (RH2)
18036	E05	id 703 AM 24-11-02 1200 (AB)
18036.0	E05	in progress USB 10-11-02 Sun 1230 (ASC)
18523	M42	FAPSI. Msg on link 30044 RTTY 20-11-02 0621 (RH2)
18523	M42	FAPSI. Msg on link 30044 RTTY 27-11-02 0535 (RH2)
18864.0	E04	88476 //23461 USB 14-11-02 Thu 1200 (ASC)
18864.0	E04	in progress USB 14-11-02 Thu 1320 (ASC)
20048	MX	Cluster beacon "C" CW 28-10-02 0859 (DW)
20474.0	E04	QSA 1 USB 12-11-02 Tue 0010 (LC2)
20615	M42	FAPSI .Ends with CFM THS GB SK RTTY 21-11-02 0940 (RJD)

20946 M16 8BY VVV marker CW 1046 (PP)
 21866.0 E04 (09665) USB 15-11-02 Fri 0013 (LC2)
 23461.0 E04 (44038) USB 12-11-02 Tue 0012 (LC2)
 23461.0 E04 88476 //18864 USB 14-11-02 Thu 1200 (ASC)
 23461.0 E04 in progress USB 14-11-02 Thu 1320 (ASC)
 23921.9 MX? "C" beacon. Not sure if it is MX CW 05-11-02 (AA)

::: Contributors to the logs section

AA Alex, Austria
 AB Ary Boender, Netherlands
 AF AF, Germany
 AHL Allen Lutins, NY, USA
 ASC Anonymous, Scandinavia
 BM Ben Mesander, CO, USA
 BS2 Billy S., OH, USA
 BS4 Bob Swartz, VA, USA
 CA2 Chris Acuff, MS, USA
 DT0 Dave Too
 DW Day Watson, UK
 GG Gallus Galus, W.Europe
 GN Gert, Netherlands
 HFD Hans-Friedrich Dumrese, Germany
 IA Ivan, Hungary
 IB Igor Buhtiyarov, Russia
 JS3 Jochen Schaefer, Germany
 LC2 Laurent Carbonnaux, France
 MC Mike Chace-Ortiz, PA, USA
 MG Manolis, Greece
 MS Mark Slaten, MI, USA
 PILE Pile, Finland
 PP Peter Poelstra, Netherlands
 PPs Piet Pijpers
 RGA Jim, UK
 RH2 Robert Hall, S.Africa
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